Welcome to Virtual NSF Day!



Monday February 22, 2016



OVERVIEW AND FACTS ABOUT

THE NATIONAL SCIENCE FOUNDATION

Basic research ... results in general knowledge and an understanding of nature and its laws. This general knowledge provides the means of answering a large number of important practical problems

- Vannevar Bush



NSF FY 2017 Budget Request

Total: \$8 billion



Total NSF Request

\$7.964 billion

- +\$501 million
- +6.7 percent over FY 2016 Enacted

Two Funding Sources

- \$7.564 billion, discretionary funding (+1.3 percent)
- \$400 million, new one-time mandatory/direct spending authority



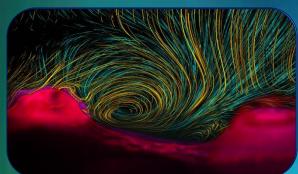
NSF's Organization

The NSF Directorates and Offices

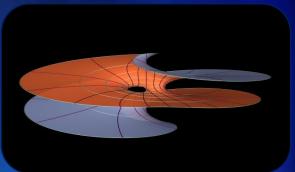




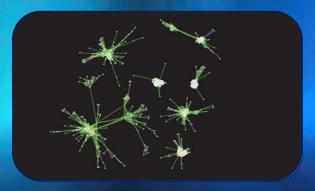






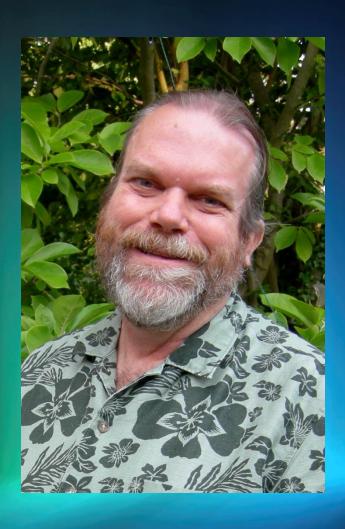








Biological Sciences (BIO)



George Gilchrist

Division of Environmental Biology Ggilchrist@nsf.gov

- Permanent Program Officer in the Division of Environmental Biology/Evolutionary Processes Cluster
- Technical Coordinator for the BEACON (Bio/computational Evolution in Action CONsortium) Science and Technology Center at Michigan State University
- Program Officer on Dimensions of Biodiversity

Biological Sciences (BIO)

James Olds, Assistant Director
Jane Silverthorne, Deputy Assistant Director

Emerging Frontiers (EF)

Division of Biological Infrastructure (DBI)

Muriel Poston, Division Director

James Deshler, Deputy Division Director

Division of Molecular and Cellular Biosciences (MCB)

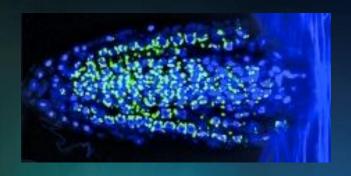
Linda Hyman, Division Director Theresa Good, Deputy Division Director

Division of Environmental Biology (DEB)

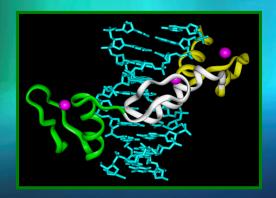
Paula Mabee, Acting Division Director Alan Tessier, Deputy Division Director Division of Integrative Organismal Systems (IOS)

Heinz Gert de Couet, Division Director Rob Miller, Deputy Division Director

Biological Sciences (BIO)







Priorities

Investigator-driven projects in all areas of Biological Research

Brain Research through Advancing Innovative Neurotechnologies (BRAIN) National Ecological Observatory Network (NEON)

Plant Genome Research Program (PGRP)

Dimensions of Biodiversity

Projects at interface of biology,

mathematics, and engineering (BIOMAPS)

NEW: Enabling Discovery through Genomic

Tools (EDGE)

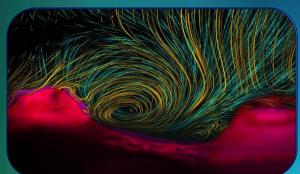
<u>Crosscutting</u>: Innovations at the Nexus of Food, Energy, and Water Systems (INFEWS)

The NSF Directorates and Offices

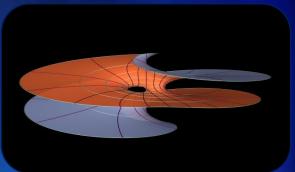


















Social, Behavioral, & Economic Science (SBE)



Laura L. Namy
Division of Developmental and
Learning Sciences
Inamy@nsf.gov

NSF Representative, White House Social & Behavioral Sciences Team

Faculty member at Emory University

- -Professor in Psychology
- -Core Faculty in Linguistics
- -Associate Director, Center for Mind, Brain and Culture



Social, Behavioral and Economic Sciences

Fay Lomax Cook, Assistant Director Kellina Craig-Henderson, Deputy Assistant Director SBE Office of Multidisciplinary Activities (SMA)

Science of Learning
Science of Science and innovation
Policy
Interdisciplinary Behavioral and
Social Sciences
Resource Implementation for Data
Intensive Research in SBE

Behavioral and Cognitive Sciences (BCS)

Howard Nusbaum, Division Director Amber Story, Deputy Division Director

Social and Economic Sciences (SES)

Alan Tomkins, Acting Division Director **Kay Meyer**, Acting Deputy Division Director

National Center for Science and Engineering Statistics (NCSES)

John Gawalt, Division Director Jeri Mulrow, Deputy Division Director

Archeology and Archaeometry
Biological Anthropology
Cultural Anthropology
Geography and Spatial Sciences
Cognitive Neuroscience
Developmental and Learning Sciences
Documenting Endangered Languages
Linguistics
Perception, Action and Cognition

Social Psychology

Decision Risk and Management Sciences
Economics
Law and Social Sciences
Methodology, Measurement, and Statistics
Political Science
Science of Organizations
Science, Technology, and Society
Secure and Trustworthy Cyberspace
Sociology



SBE-Related Cross-Directorate Initiatives

Science of Broadening Participation & INCLUDES
Understanding the Brain
Forensic Sciences
Big Data
Coupled Natural and Human Systems
Interdependent Infrastructure Systems and Processes
Food, Energy, and Water Systems

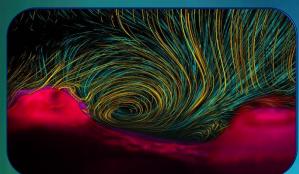


The NSF Directorates and Offices

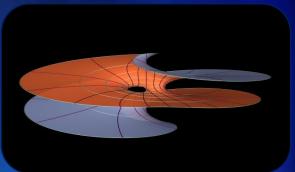


















Budget, Finance & Award Management (BFA)

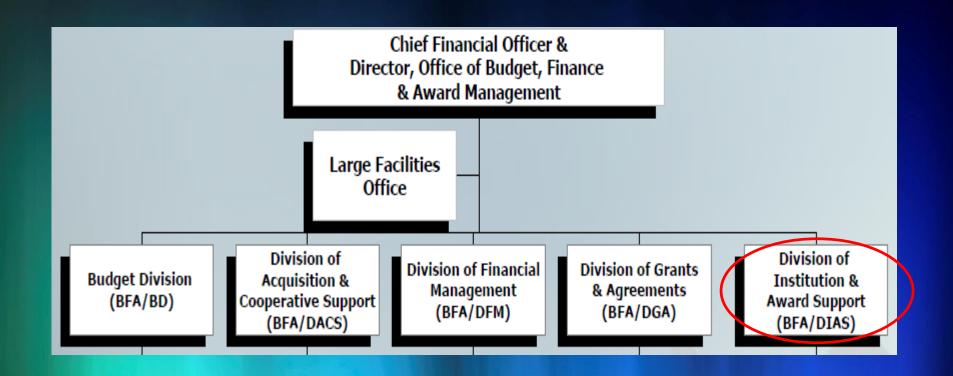


Jeremy Leffler

Policy Office, Division of Institution & Award Support jleffler@nsf.gov

- Serves as outreach specialist for proposal & award policy
- Communicates policies and procedures to the research community and NSF staff
- Organizes bi-annual NSF Grants
 Conference
- Plans S & E research and education programs for institutions that are historically underserved in the federal arena.

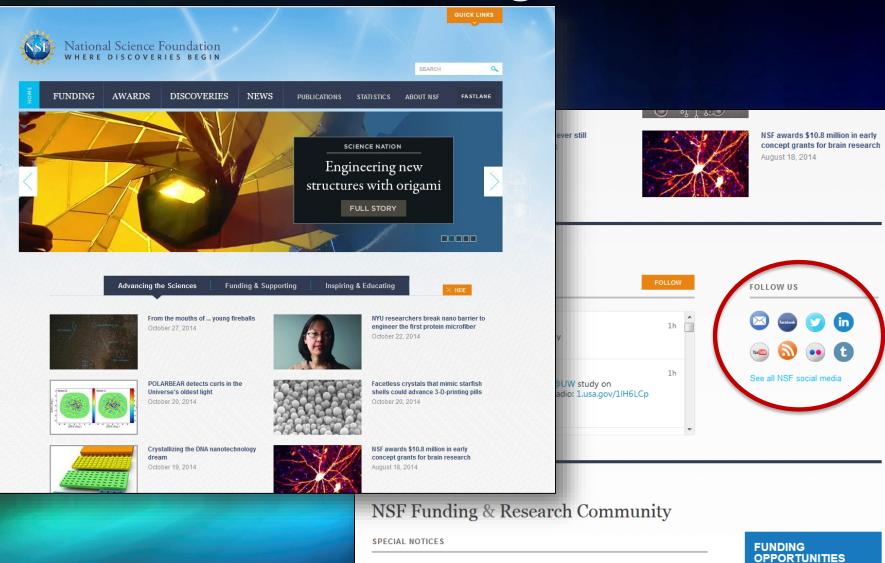
Budget, Finance & Award Management (BFA)



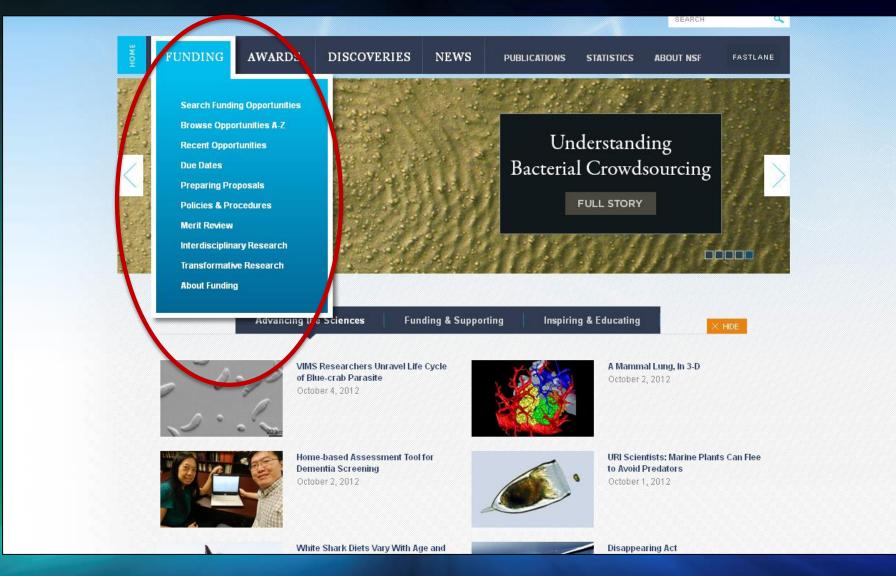


Getting Started The Essentials

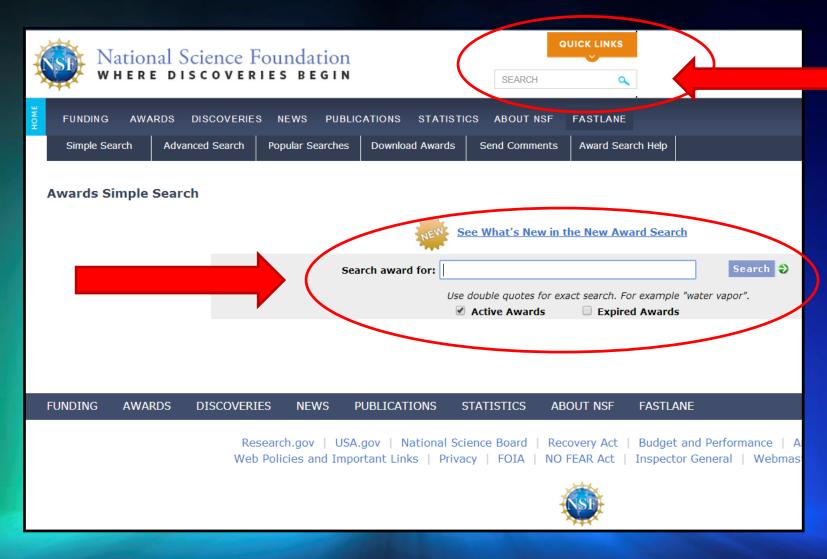
www.NSF.gov



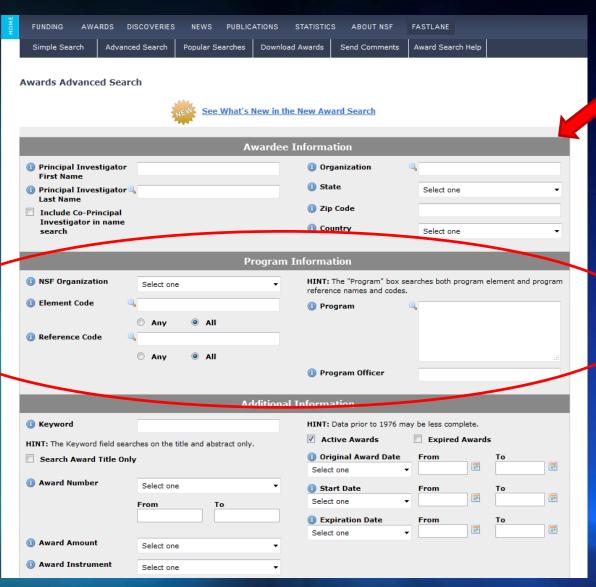
Navigating www.NSF.gov



Navigating www.NSF.gov



Navigating www.NSF.gov



Additional Information on Resources

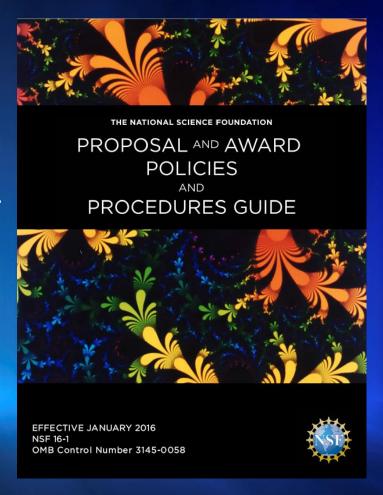
Join Directorate Specific Listserves!

Use Grants.gov's search feature



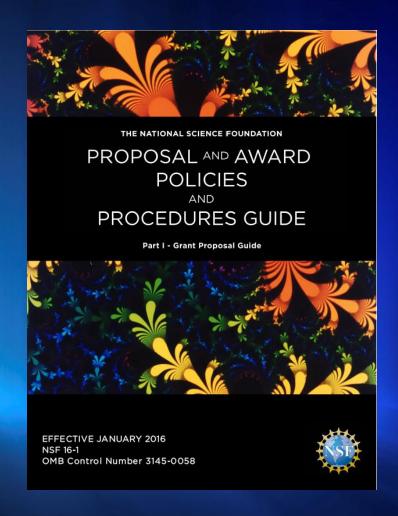
What is the Proposal & Award Policies & Procedures Guide?

The Proposal and Award Policies and Procedures Guide (PAPPG) contains documents relating to NSF's proposal and award process. It has been designed for use by both our customer community and NSF staff and consists of two parts:



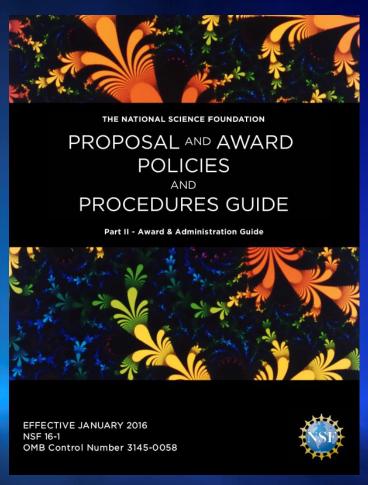
What is the Proposal & Award Policies & Procedures Guide?

Part I is NSF's proposal preparation and submission guidelines -- the NSF Grant Proposal Guide (GPG) and the NSF Grants.gov Application Guide.



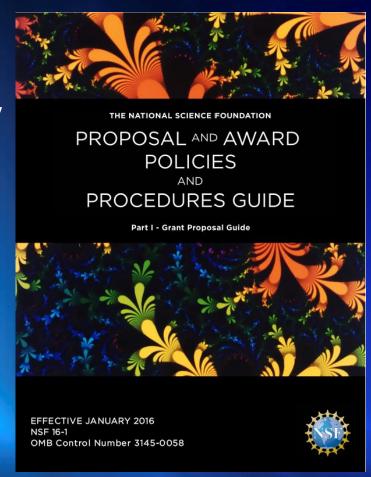
What is the Proposal & Award Policies & Procedures Guide?

Part II is NSF's award and administration guidelines -- the documents used to guide, manage, and monitor the award and administration of grants and cooperative agreements made by NSF.



Grant Proposal Guide

- Provides guidance for preparation and submission of proposals to NSF
- Describes process and criteria by which proposals will be reviewed
- Outlines reasons why a proposal may not be accepted or may be returned without review
- Describes process for withdrawals, returns, and declinations
- Describes the NSF Reconsideration Process



Types of Funding Opportunities

Program

Descriptions

Program
Announcements

Program Solicitations

Dear Colleague Letters Proposals for a **Program Description** must follow the instructions in the GPG.

Proposals for a **Program Announcement** must follow the instructions in the GPG.

Proposals must follow the instructions in the **Program Solicitation**; the instructions in the GPG apply unless otherwise stated in the solicitation.

Dear Colleague Letters are notifications of opportunities or special competitions for supplements to existing NSF awards.

Navigating a Program Description

Division of Mathematical Sciences

Algebra and Number Theory

CONTACTS



Name	Email	Phone	Room
<u>Tie Luo</u>	tluo@nsf.gov	(703) 292-8448	1025 N
J. Matthew Douglass	mdouglas@nsf.gov	(703) 292-2467	1025 N
Andrew Pollington	adpollin@nsf.gov	(703) 292-4878	1025 N
<u>Victoria Powers</u>	vpowers@nsf.gov	(703) 292-2113	1025 N

PROGRAM GUIDELINES

Apply to PD 10-1264 as follows:



For full proposals submitted via FastLane: standard <u>Grant Proposal Guide</u> proposal preparation guidelines apply.

For full proposals submitted via Grants.gov: the NSF Grants.gov Application Guide; A Guide for the Preparation and Submission of NSF Applications via Grants.gov Guidelines applies. (Note: The NSF Grants.gov Application Guide is available on the Grants.gov website and on the NSF website at: http://www.nsf.gov/publications/pub_summ.jsp? ods key=grantsgovquide)

Important Information for Proposers

A revised version of the NSF Proposal & Award Policies & Procedures Guide (PAPPG) (NSF 15-1), is effective for proposals submitted, or due, on or after December 26, 2014. The PAPPG is consistent with, and, implements the new Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance) (2 CFR § 200). Please be advised that the guidelines contained in NSF 15-1 apply to proposals submitted in response to this funding opportunity.

DUE DATES



Full Proposal Target Date: October 9, 2015

Second Friday of October

Second Friday in October, Annually Thereafter

Research proposals (as opposed to conference proposals) are expected to be submitted by the target date. An extension may be granted under unusual extenuating circumstances, provided that approval is obtained from the cognizant Program Director prior to the target date.

SYNOPSIS



The Algebra and Number Theory program supports research in algebra, algebraic and arithmetic geometry, number theory, and representation theory.

Conferences

Principal Investigators should carefully read the program solicitation "Conferences and Workshops in the Mathematical Sciences" (link below) to obtain important information regarding the substance of proposals for conferences, workshops, summer/winter schools, and similar activities.

For conference proposals with budgets not exceeding \$50,000, which in accordance with NSF policy can be reviewed internally at NSF, the following target dates are in effect: For an event that will take place at some time prior to October 1 during a given year, the proposal should be submitted in October of the previous year. For an event that will occur in the period October 1 through December 31 of a given year, the proposal should be submitted in May of that year. A conference proposal with a budget request exceeding \$50,000 should be submitted roughly seven months before the event is scheduled to take place, in order to allow time for external review.

RELATED PROGRAMS

Focused Research Groups in the Mathematical Sciences
Research Training Groups in the Mathematical Sciences

Faculty Early Career Development Program

Mathematical Sciences Postdoctoral Research Fellowships
NSF Graduate Research Fellowship Program

RELATED URLS

Conferences and Workshops in the Mathematical Sciences

THIS PROGRAM IS PART OF

Disciplinary Research Programs



What Has Been Funded (Recent Awards Made Through This Program, with Abstracts)

Map of Recent Awards Made Through This Program

News

Navigating a Program Solicitation

Enhancing Access to the Radio Spectrum (EARS)

PROGRAM SOLICITATION

NSF 15-550

REPLACES DOCUMENT(S):

NSF 14-529



National Science Foundation

Directorate for Mathematical & Physical Sciences Division of Astronomical Sciences

Directorate for Engineering
Division of Electrical, Communications and Cyber Systems

Directorate for Computer & Information Science & Engineering Division of Computer and Network Systems

Full Proposal Deadline(s) (due by 5 p.m. proposer's local time):

June 02, 2015



IMPORTANT INFORMATION AND REVISION NOTES

Any proposal submitted in response to this solicitation should be submitted in accordance with the revised NSF Proposal & Award Policies & Procedures Guide (PAPPG) (NSF 15-1), which is effective for proposals submitted, or due, on or after December 26, 2014. The PAPPG is consistent with, and, implements the new Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards (Uniform Guidance) (2 CFR § 200).

SUMMARY OF PROGRAM REQUIREMENTS



Program Title:

Enhancing Access to the Radio Spectrum (EARS)

Opportunities for interdisciplinary research that increases the efficiency of the radio spectrum, expanding the access to wireless-enabled services for all Americans.

Synopsis of Program:

The National Science Foundation's Directorates for Mathematical and Physical Sciences (MPS), Engineering (ENG), and Computer and Information Science and Engineering (CISE) are coordinating efforts to identify bold new concepts with the potential to

Award Information

Anticipated Type of Award: Standard Grant

Estimated Number of Awards: 20 to 25

Each proposal may request up to \$750,000 in total funding over a period of up to three years.

Anticipated Funding Amount: \$15,000,000

Eligibility Information

Who May Submit Proposals:

Proposals may only be submitted by the following:

- Universities and Colleges Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in, the US acting on behalf of their faculty members. Such organizations also are referred to as academic institutions.
- Non-profit, non-academic organizations: Independent museums, observatories, research labs, professional societies and similar organizations in the U.S. associated with educational or research activities.

Who May Serve as PI:

There are no restrictions or limits

Limit on Number of Proposals per Organization:

There are no restrictions or limits.

Limit on Number of Proposals per Pl or Co-Pl:

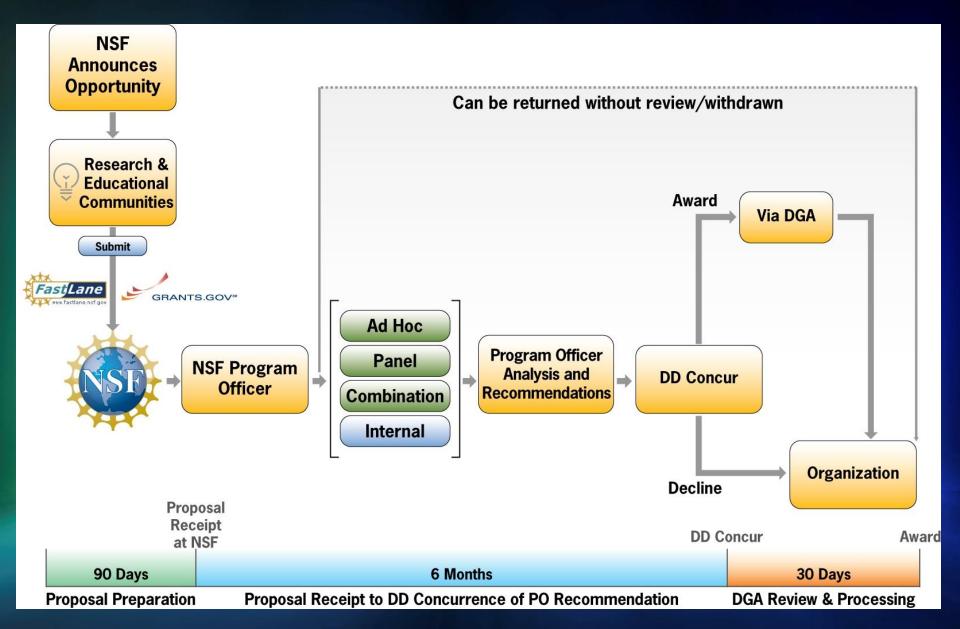
A proposer may be a Principal Investigator (PI) or co-PI on up to two proposals.

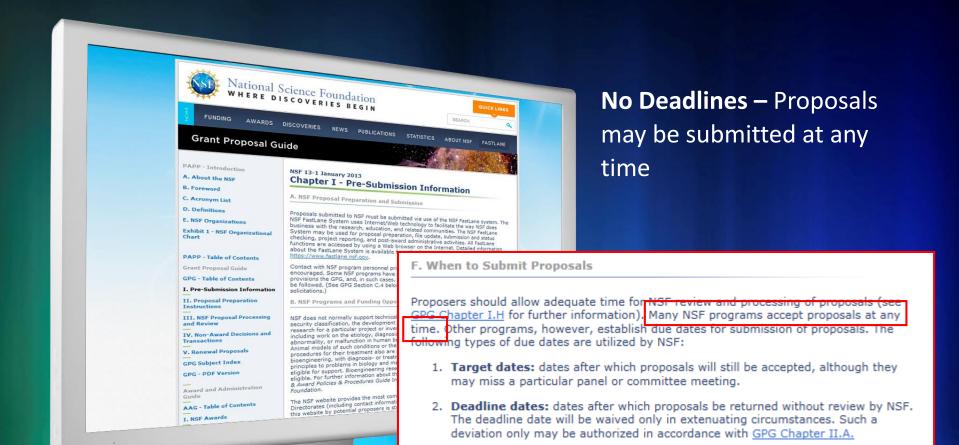
Proposal Preparation and Submission Instructions

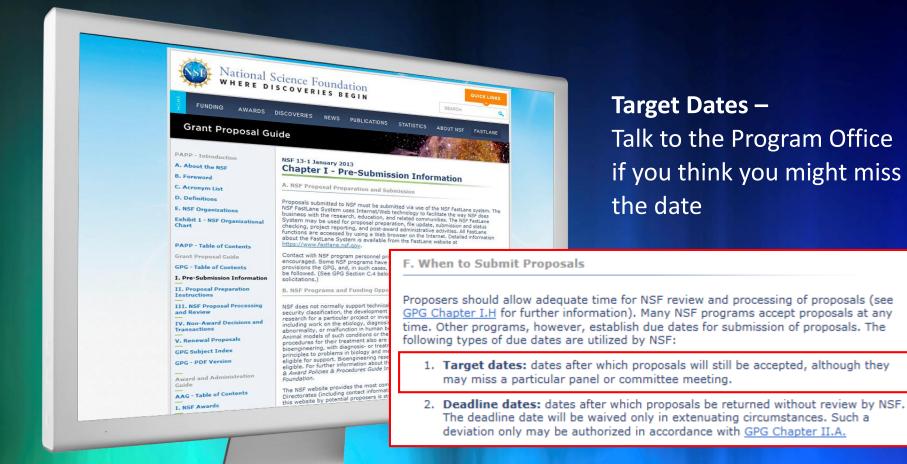
A. Proposal Preparation Instructions

- · Letters of Intent: Not required
- Preliminary Proposal Submission: Not required
- Full Proposals:
 - Full Proposals submitted via FastLane: NSF Proposal and Award Policies and Procedures Guide, Part I: Grant Proposal Guide (GPG) Guidelines apply. The complete.

NSF Proposal & Award Process Timeline









NSF does not normally support techni

security classification, the development research for a particular project or inve

including work on the etiology, diagnosi abnormality, or malfunction in human b Animal models of such conditions or the

procedures for their treatment also are brocedures for their readment also are bioengineering, with diagnosis or treating principles to problems in biology and my eligible for support. Bioengineering rese eligible. For further information about the & Award Policies & Procedures Guide In

The NSF website provides the most co-Directorates (including contact informathis website by potential proposers is s

Foundation.

III. NSF Proposal Processing

IV. Non-Award Decisions and

Transactions V. Renewal Proposals

GPG Subject Index

GPG - PDF Version Award and Administration

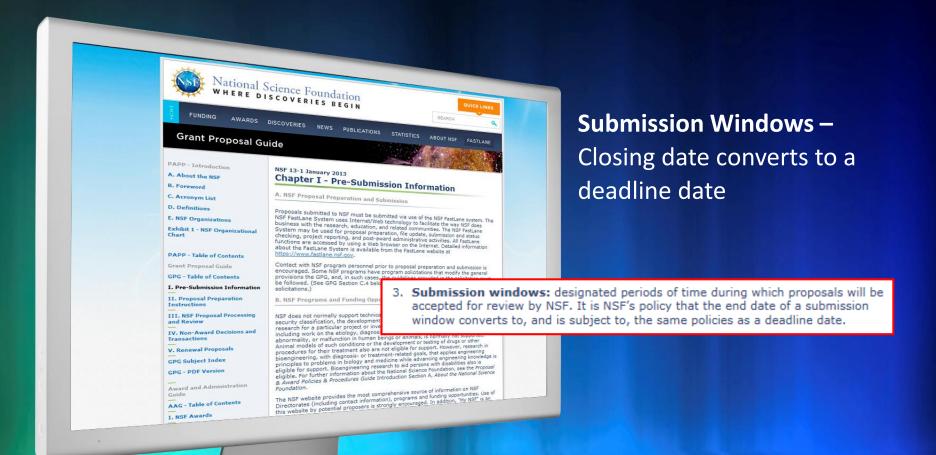
I. NSF Awards

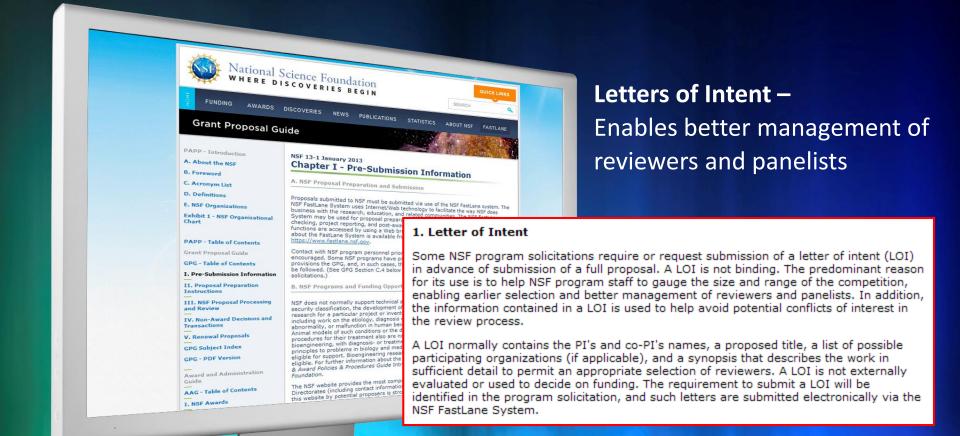
AAG - Table of Contents

Deadline Dates -Proposals will not be accepted after this date and time (5 pm submitter's local time)

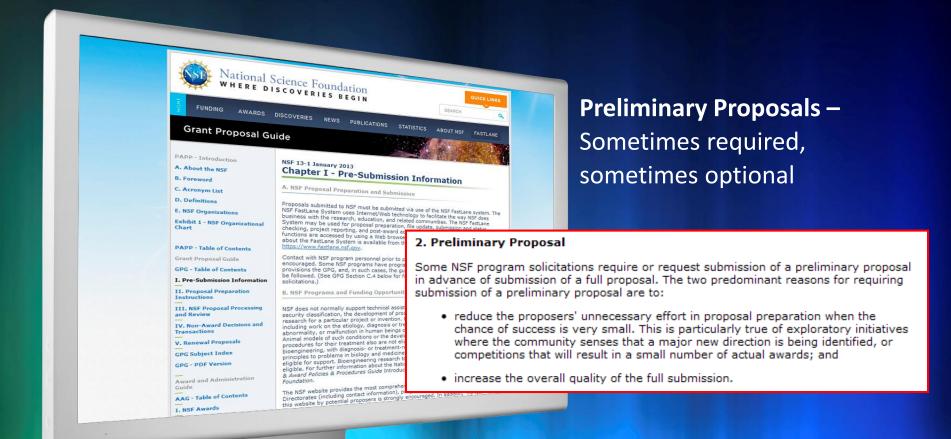
Proposers should allow adequate time for NSF review and processing of proposals (see GPG Chapter I.H for further information), Many NSF programs accept proposals at any time. Other programs, however, establish due dates for submission of proposals. The following types of due dates are utilized by NSF:

- Target dates: dates after which proposals will still be accepted, although they may miss a particular panel or committee meeting.
- Deadline dates: dates after which proposals be returned without review by NSF. The deadline date will be waived only in extenuating circumstances. Such a deviation only may be authorized in accordance with GPG Chapter II.A.





Types of Proposal Submissions



Types of Proposals

- RAPID
- EAGER
- Research (Other than RAPID or EAGER_
- Ideas Lab
- Equipment
- Conference
- International Travel
- Fellowship
- Facility/Center

Questions on Funding Opportunities?



Contact your NSF program officer

Work with your organization's sponsored projects office



Ask early, ask often policy@nsf.gov



Things to Consider Before Applying...

Five Key Elements



- 1. Great idea
- 2. Fit with current research expertise and career development plans
- 3. Ability to devise a strategy including benchmarks, timelines, and metrics
- 4. Adequate resources to accomplish your project
- 5. Assessment Plan

Developing your Proposal

Key Questions for Prospective Investigators

- What has already been done?
- What do you intend to do?
- Why is the work important?
- How is the work unique or cutting edge?
- How are you going to do the work?
- Do you have the right team?

Proposal Development Strategies:

What Do You Need Besides \$???

- Prepare to do the project
 - Realistically assess needs
 - Determine available resources
 - Develop preliminary data
 - Present to colleagues/mentors/students
- Determine possible funding sources (NSF may not be the right or the only one)



Proposal Development Strategies:

What details should you glean from the solicitation?



- Overall scope and mission
- Instructions (deviations from the GPG)
- How your proposed project fits with the solicitation
- Review procedures and criteria
- Deadlines

Proposal Development Strategies:

Who Should You Talk To?

NSF Program Officer

- Your proposed project
- Clarifications on specific program requirements/limitations
- Current program patterns

Your Organization's Sponsored Projects Office

- University guidelines for applications
- Institutional Review Board "IRB" Approvals

e.g. institutional Animal Care and Use Committee (IACUC) approvals



So You Want to Write a Proposal...

What to Look for in a Program Announcement or Solicitation

- Goals
- Eligibility Requirements
- Special proposal preparation and/or award requirements
- Review Criteria

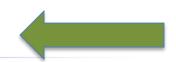


Sample Cover Page of a Solicitation

Louis Stokes Alliances for Minority Participation (LSAMP)

PROGRAM SOLICITATION

NSF 15-594

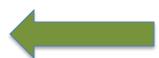


REPLACES DOCUMENT(S): NSF 12-564



National Science Foundation

Directorate for Education & Human Resources
Division of Human Resource Development



Full Proposal Deadline(s) (due by 5 p.m. proposer's local time):

November 04, 2015

Bridge to the Doctorate; Pre-Alliance Planning Grants

November 20, 2015

LSAMP Alliance Proposals (including Bridge to the Baccalaureate)

October 14, 2016

Bridge to the Doctorate; Pre-Alliance Planning Grants

November 04, 2016

LSAMP Alliance Proposals (including Bridge to the Baccalaureate)

Program
Solicitation
Number

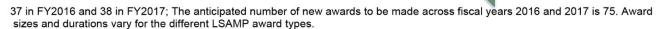
NSF Directorates and Offices providing funding for this opportunity

Solicitation — Award Information

Award Information

Anticipated Type of Award: Standard Grant or Continuing Grant

Estimated Number of Awards: 37 to 38



The estimated number of awards by type is as follows:

Alliances. 19 alliance grants in FY2016 and 18 in FY2017.

Awards for alliances will be made as Continuing Grants. The progress and plans of each alliance will be reviewed annually by NSF, prior to approving continued NSF support. Alliances that are not meeting the expectations set forth in this solicitation may have their level of funding reduced or may be terminated.

Bridge to the Doctorate, 10 BD grants in FY2016 and 10 in FY2017.

Pre-Alliance Planning Grants. 8 planning grants in FY2016 and 10 in FY2017.

Anticipated Funding Amount: \$45,600,000

Annually for new and continuing awards

Approximately \$32 million, pending availability of funds, for new awards in FY2016 to support Alliances (including Bridge to the Baccalaureate), Bridge to the Doctorate, Pre-Alliance Planning grants, and other funding opportunities.

Expected number of awards funded by the program per year

Expected funds available to the program per year

Sample Cover Page — Eligibility

Eligibility Information

Who May Submit Proposals:

Proposals may only be submitted by the following:

• Universities and Colleges - Universities and two- and four-year colleges (including community colleges) accredited in, and having a campus located in, the US acting on behalf of their faculty members. Such organizations also are referred to as academic institutions.

Who May Serve as PI:

The Principal Investigator (PI) for **Alliances (including B2B)** should be the President, Chancellor, or Provost of the lead institution. A full justification is needed for a PI designation in variance with this requirement. Co-principal investigators (Co-PIs) from partner institutions may be designated, as appropriate, for the project. At least one of the Co-PIs must have expertise in social science or education research for proposals from alliances funded more than 10 years.

The Principal Investigator for a **Bridge to the Doctorate** activity should be on the leadership team at the lead institution and listed as one of the Co-PIs of the alliance. One or more of the listed Co-PIs must be from the host institution (site of the BD activity).

The Principal Investigator for a **Pre-Alliance Planning** grant should be the key personnel that will be responsible for organizing and implementing the planning activities.

Limit on Number of Proposals per Organization:

Alliances (including B2B): Only one proposal may be submitted by an eligible (lead) institution. Alliances may hold only one active award at a time, not including BD awards. Institutions partnering in an alliance may not be a formal partner in more than one alliance at the same time. See Section II (Program Description 1. Alliances, Special Conditions for Alliances funded more than 10 years) for an exception.

Bridge to the Doctorate (BD): Only one proposal for BD support may be submitted by an eligible lead institution of an alliance. See Section II, Program Description 2. Bridge to the Doctorate, for eligibility criteria.

Pre-Alliance Planning: Only one proposal may be submitted by appleligible institution.

Limit on Number of Proposals per PI or Co-PI:

Alliances (including B2B) and Pre-Alliance Planning: 1

Bridge to the Doctorate (BD): 1

Exception: Alliances funded more than 10 years are allowed to submit an alliance proposal as well as a BD proposal.

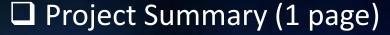
Eligibility information for institutions/PIs submitting proposals



Parts of a Proposal

NSF
PROPOSAL
PROPOSAL
INGREDIENTS







☐ Project Description (15 pages)

References Cited

☐ Biographical Sketches (for all senior personnel)

■ Budget

Current and Pending Support

☐ Facilities, Equipment, and Other Resources

☐ Post-doctoral mentoring plan (if applicable)

Data management plan

☐ Supplementary Documentation (if applicable)





Parts of an NSF Proposal

Cover Sheet

Many of the boxes on the cover sheet are electronically prefilled as part of the FastLane login process.

	COVER SHE	ET FO	R PROP	OSAL TO	THE NATIO	NAL SCIEN	CE FOUND	ATION	
PROGRAM ANNOUNCEMENT/SOLICITATION NO./CLOSING DATE/If not in response to a program announcement/solicitation enter NSF 14-1								FOR NSF USE ONLY	
NSF 14-1							NSF PROPOSAL NUMBER		
FOR CONSIDERATION	BY NSF ORGANIZATIO	N UNIT(S	(Indicate the mo	st specific unit know	vn, i.e. program, division, et	h)	1 46	200400	
PHY - ASTRO	PHYSICS & COS	SMOLO	GY THEO	R			<u> 13</u>	<u>509402</u>	
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TAXPAYER IDENTIFICATION NUMBER (TIN) A REM			OW PREVIOUS AWARD NO. IF THIS IS A RENEWAL AN ACCOMPLISHMENT-BASED RENEWAL		IS THIS PROPOSAL BEING SUBMITTED TO ANOTHER FEDERAL AGENCY? YES ☐ NO ☒ IF YES, LIST ACRONYM(S)				
NAME OF ORGANIZATION TO WHICH AWARD SHOULD			Arlington, VA 2			EE ORGANIZATION, INCLUDING 9 DIGIT ZIP CODE 22000000			
AWARDEE ORGANIZA 4102852000	TION CODE (IF KNOWN)			US					
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IS AWARDEE ORGANI. (See GPG II.C For Defir	ZATION (Check All That a	Apply)	SMALL BU	SINESS FIT ORGANIZAT	MINORITY	BUSINESS I	☐ IF THIS IS A PRE	LIMINARY PROPOSAL	
	PROJECT Internati								
REQUESTED AMOUNT PROPOSE 30,000			SED DURATION (1-60 MONTHS) 0 months				SHOW RELATED IF APPLICABLE	SHOW RELATED PRELIMINARY PROPOSAL NO. F APPLICABLE	
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URRTEBRATE ANIMALS (GPG II.D.6) IACUC App. Date PHS Animal Welfare Assurance Number					☐ COLLABORATIVE STATUS				
FUNDING MECHAN	ISM Conference, S	ymposi	um, Works	hop	Not a collabo	rative proposa	l		
PI/PD DEPARTMENT Physics			PUPD POSTAL ADDRESS 4201 WILSON BLVD						
				GTON, VA 222300000 States					
NAMES (TYPED)		High De		Yr of Degree	Telephone Numb	er	Email Addre	ess	
PI/PD NAME								<u> </u>	
		DSc	Sc 1999		703-292-900	td@nsf.g	@nsf.gov		
CO-PI/PD									
CO-PI/PD									
CO-PI/PD									
CO-PI/PD								-	
-								5	

Parts of an NSF Proposal

Project Summary Requirements:

Overview
Statement on Intellectual Merit
Statement of Broader Impacts
Special characters (e.g., formulas) may be uploaded as a PDF



Project Description Addresses:

What you want to do
Why you want to do it
How you plan to do it
How you measure success
What are the benefits
Results from prior NSF support

Parts of an NSF Proposal

A separate section,

Broader Impacts of the Proposal Work,

must be completed





Budgetary Guidelines

Amounts should be:

- Realistic and reasonable
- Well-justified and should establish need
- Consistent w/program
 guidelines in solicitation,
 GPG, and in Award and
 Administration Guide (AAG)



Eligible costs consist of:

- Personnel
- Equipment
- Travel
- Participant support
- Other (e.g., subawards, consultant and computer services, publications costs)
- Indirect costs (as appropriate)

NSF Cost Sharing Policy

Inclusion of *voluntary committed* cost sharing is <u>prohibited</u> in the budget of solicited & unsolicited proposals.



Organizations may, at their own discretion, continue to contribute voluntary uncommitted cost sharing to NSF-sponsored projects as part of the section for Facilities, Equipment, and Other Resources.

Sections of an NSF Proposal

Facilities, Equipment, and Other Resources

Used to assess the adequacy of the organizational resources available to perform the effort proposed. Should not contain quantifiable financial information.

Current and Pending Support

This section of the proposal requires reporting on all current and pending support for ongoing projects and proposals from any funding source.



Special Information and Supplementary Documentation

Letters of support versus letters of commitment

Postdoctoral mentoring plans

Data management plans

You should alert NSF officials to unusual circumstances that require special handling (i.e. proprietary information)

Solicitations may specify what is and is not allowed to be submitted



Mentoring for Postdoctoral Researchers

- Explicit description of the mentoring activities
- Must include a mentoring plan as a supplementary document (maximum one-page)
- For collaborative proposals, lead organization must submit a single mentoring plan for all postdoctoral researchers supported under the entire project.



Data Management Plan Requirements

Requirements by Directorate, Office, Division, Program, or other NSF Unit

Links to data management requirements and plans relevant to specific Directorates, Offices, Divisions, Programs, or other NSF units, are provided below. If guidance specific to the program is not provided, then the requirements established in Grant Proposal Guide, Chapter II.C.2.j apply.

Please note that if a specific program solicitation provides guidance on preparation of data management plans, such guidance must be followed.

- Engineering Directorate (ENG)
 - Directorate-wide Guidance
- Geological Sciences Directorate (GEO)
 - Division of Earth Sciences
 - Integrated Ocean Drilling Program
 - Division of Ocean Sciences
- Mathematical and Physical Sciences Directorate (MPS)
 - Division of Astronomical Sciences
 - Division of Chemistry
 - o Division of Materials Research
 - Division of Mathematical Sciences
 - Division of Physics
- · Social, Behavioral and Economic Sciences Directorate (SBE)
 - Directorate-wide Guidance

<u>Data Management & Sharing Frequently Asked Questions (FAQs)</u> - updated November 30, 2010

Requirements may vary by Directorate or Office

nsf.gov/bfa/dias/policy/dmp.jsp

Questions?





THE END

We'll see you tomorrow. . .

Welcome to Virtual NSF Day!



Tuesday February 23, 2016





OVERVIEW AND FACTS ABOUT

THE NATIONAL SCIENCE FOUNDATION

\$8B

FY 2017 budget request

93% ed

funds research, education and related activities



50,000 proposals



12,000 awards funded



2,000
NSF-funded institutions



350,000 NSF-supported researchers



Fund research in all S&E disciplines



Fund STEM education & workforce



217
Nobel Prize winners





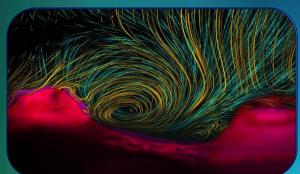
NSF's Organization

The NSF Directorates and Offices

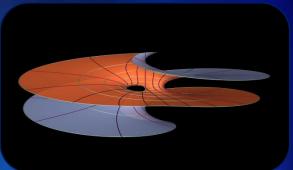




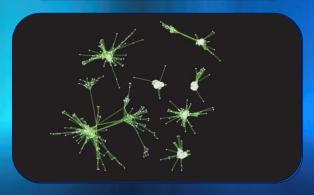














Computer & Information Science & Engineering (CISE)



Tatiana (Tanya) Korelsky
Information Intelligence Systems (IIS) Division
tkorelsk@nsf.gov

Robust Intelligence Program Director

Expertise in Human Languages Technologies: natural language and speech analysis and synthesis, dialogue systems

Engaged in cross-directorate programs involving Cyber-learning, Science of Learning, the National Robotics Initiative and Smart and Connected Health

Computer & Information Science & Engineering (CISE)

James F. Kurose, Assistant Director Erwin Gianchandani, Deputy Assistant Director (Acting)

Division of Advanced Cyberinfrastructure (ACI)

Irene M. Qualters, Division Director Amy Apon, Deputy Division Director (Acting)

Division of Information and Intelligent Systems (IIS)

Lynne Parker, Division Director

Deborah F. Lockhart, Deputy Division

Director

Division of Computer and Network Systems (CNS)

Peter Arzberger, Div. Director (Acting)
Phillip Regalia, Deputy Division Director
(Acting)

Division of Computing and Communication Foundations (CCF)

S. Rao Kosaraju, Division Director **James J. Donlon**, Deputy Division Director

Computer & Information Science & Engineering (CISE)

Directorate Priorities

- Core research programs across computer science (CS)
- Cross-directorate and cross-NSF programs (e.g., BRAIN, Cyberlearning, Secure and Trustworthy Cyberspace, Cyber-Physical Systems, NRIstal DATA, Smart and

Connected Health)

- CS education STEM+C
- Building cyber infrastructure for science and engineering

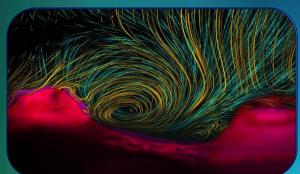


The NSF Directorates and Offices

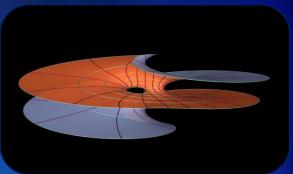


















Mathematical & Physical Sciences (MPS)



James Neff
Division of Astronomical Sciences
jneff@nsf.gov

Coordinator, AST Individual Investigator Award programs

Served as lead for:

- Galactic Astrophysics
- Stellar Astrophysics in the Astronomy
- Astrophysics Grants program (AAG)

IPA, on detail from the College of Charleston; Professor of Physics & Astronomy

Mathematical & Physical Sciences (MPS)

F. Fleming Crim, Assistant Director Clifford Gabriel, Deputy Assistant Director (Acting) Office of Multidisciplinary Activities (OMA)

Clark Cooper

Division of Astronomical Sciences (AST)

James Ulvestad, Division Director Patricia Knezek, Deputy Division Director

Division of Materials Research (DMR)

Linda Sapochak, Division Director (Acting) **Charles Ying**, Deputy Division Director
(Acting)

Division of Physics (PHY)

Denise Caldwell, Division Director **Bradley Keister**, Deputy Division Director

Division of Chemistry (CHE)

Carol Bessel, Division Director (Acting)
Angela Wilson, Upcoming Division Director
Timothy Patten, Deputy Division Director
(Acting)

Division of Mathematical Sciences (DMS)

Michael Vogelius, Division Director Jennifer Pearl, Deputy Division Director (Acting)

Mathematical & Physical Sciences (MPS)



Emphasis Areas

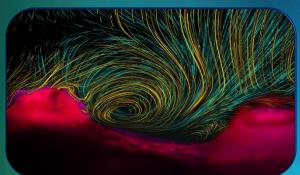
- Physical sciences at the nanoscale
- Advances in optics and photonics
 - Materials by design
 - Physics of the universe
 - World-class, shared-use Facilities
 - Quantum information science
- Complex systems (multi-scale, emergent phenomena)
- Innovations at the Nexus of Food, Energy and Water Systems
 - Sustainability (energy, environment, climate)
- Interfaces between the mathematical, physical, & life sciences

The NSF Directorates and Offices

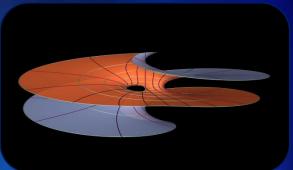




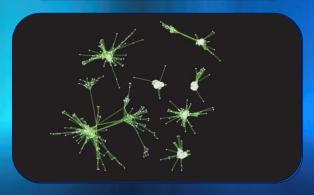














Engineering (ENG)



Supervises the General and Age Related Disability Engineering (GARDE) program

Also cognizant program officer for:

Major Research Instrumentation program
National Robotic Initiative
Partnership for Innovation program
Integrative Strategies for Understanding
Neural and Cognitive Systems program

Faculty member at Virginia Tech

Former faculty member at Florida Atlantic University, University of Central Florida





Engineering (ENG)

Emerging Frontiers in Research and Innovation (EFRI)

Sohi Rastegar

Innovation CorpsBabu DasGupta

Pramod Khargonekar, Assistant Director Grace Wang, Deputy Assistant Director

Senior Advisor for Nanotechnology Mihail Roco

Program Director for Strategic Operations Cheryl Albus

Program Director for Evaluation & Assessment Alexandra Medina-Borja

Engineering Education and Centers (EEC)

Mario Rotea, Division Director

Chemical, Bioengineering, Environmental, and Transport Systems (CBET)

JoAnn Lighty, Division Director

Civil, Mechanical, and Manufacturing Innovation (CMMI)

Deborah Goodings, Division Director

Electrical, Communications, and Cyber Systems (ECCS)

Samir El-Ghazaly, Division Director

Industrial Innovation and Partnerships (IIP)

Barry Johnson, Division Director

ENG Initiatives and Priorities Address National Interests

- INFEWS
- Risk and Resilience:CRISP
- Urban Science
- Clean Energy Technology*
- Cyber-Enabled Materials, Manufacturing, and Smart Systems - Advanced Manufacturing*

- Optics and Photonics
- Understanding the Brain
- Education and Broadening Participation: INCLUDES
- Innovation Corps
- Emerging Frontiers in Research and Innovation
- Research Centers
- National Nanotechnology Initiative*
- Communications and Cyberinfrastructure

The Merit Review Process



Video

NSF's Proposal & Award Process Timeline

Black Box?

MERIT REVIEW CRITERIA

Intellectual Merit:

the potential to advance knowledge

Broader Impacts:

the potential to benefit society and contribute to the achievement of specific, desired societal outcomes

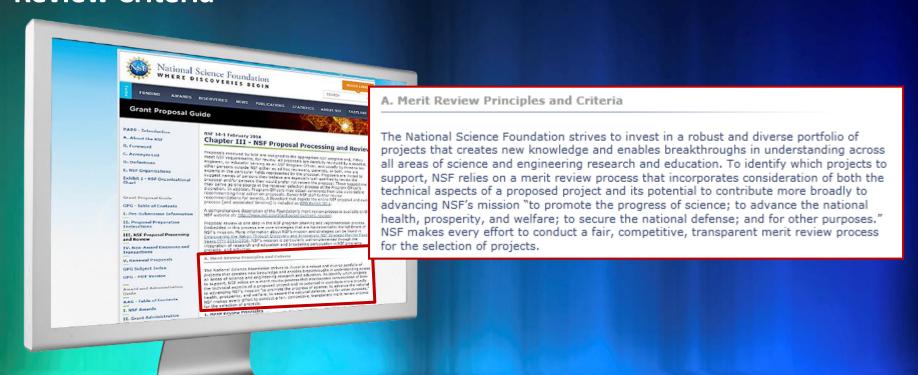
When Preparing Proposals

- Read the funding opportunity; ask a Program Officer for clarifications if needed
- Address all the proposal review criteria
- Understand the NSF merit review process
- Avoid omissions and mistakes
- Check your proposal to verify that it is complete!

Double Check that the proposal NSF receives is the one you intended to send

Merit Review Guiding Principles & Criteria

The Grant Proposal Guide (GPG) contains a description of the Merit Review Criteria



Review Format in FastLane

- Reviewers provide feedback to NSF based on the Review Criteria and the Review Elements
- Review Criteria and Elements are available as reviewers provide feedback

The following elements should be considered in the feview for both criteria.
1. What is the potential for the proposed activity to
advance knowledge and understanding within its own field or across different fields (Intellectual Merit); and
b. benefit society or advance desired societal outcomes (Broader Impacts)?
To what extent do the proposed activities suggest and explore creative, original, or
potentially transformative concepts?
3. Is the plan for carrying out the proposed activities well-reasoned, well-organized, and based on a sound rationale? Does the plan incorporate a mechanism to assess success?
4. How well qualified is the individual, team, or institution to conduct the proposed activities?
5. Are there adequate resources available to the PI (either at the home institution or through
collaborations) to carry out the proposed activities?
In the context of the five review elements, please evaluate the strengths and weaknesses of
the proposal with respect to intellectual merit.
_
In the context of the five review elements, please evaluate the strengths and weaknesses of
the proposal with respect to broader impacts.
r impacts.
Y
Please evaluate the strengths and weaknesses of the proposal with respect to any additional
solicitation-specific review criteria, if applicable.
solicitation-specific review criteria, if applicable.
solicitation-specific review criteria, if applicable.
solicitation-specific review criteria, if applicable.

Over 2,000 proposals were RWR in FY 2014 6 most common reasons why

- 1. Not responsive to the GPG or program announcement/solicitation (960)
 - 2. Does not meet an announced proposal deadline date and time (171)



- 3. It is inappropriate for NSF funding (74)
- Duplicative or substantially similar to a proposal already under consideration (66)
 - 5. Not substantively revised from a proposal that was previously reviewed and declined (37)
- 6. Duplicates another proposal that was already awarded (24)

Types of Reviews

- Ad Hoc
 - Proposals are sent out for review
- Panel



- Combination
 - Some proposals may undergo supplemental ad hoc reviews before or after a panel review
- Internal
 - Reviewed by NSF Program Officers

How are Reviewers Selected?

- Three or more external reviewers per proposal are selected
- Types of Reviewers Recruited
 - Specific content expertise
 - General science or education expertise

Sources of Reviewers

- Former reviewers
- Program Officer's knowledge of the research area
- References listed in proposal
- Recent professional society programs
- S&E journal articles related to the proposal
- Reviewer recommendations included in proposal



What is the Role of the Reviewer?

- Review all proposal material and consider
 - The two NSF merit review criteria and any program specific criteria
 - Adequacy of the proposed project plan- including the budget, resources, and timeline
 - Priorities of the scientific field and of the NSF program
 - Potential risks and benefits of the project
- Make independent written comments on the quality of the proposal content



What is the Role of the Review Panel?

Discuss the merits of the proposal with the other panelists

- Write a summary based on that discussion
- Provide some indication of the relative merits of different proposals considered



Why Serve on an NSF Panel?

- Gain first-hand knowledge of the merit review process
- Learn about common problems with proposals



- Discover proposal writing strategies
- Meet colleagues and NSF Program
 Officers managing the programs
 related to your research

How Do I Become a Reviewer?

Contact the NSF Program Officer(s) of the program(s) that fit your expertise

- Introduce yourself as a strong potential reviewer based on your research experience
- Offer to send a 2-page CV with current contact information
- Stay in touch if you don't hear back right away



Conflicts of Interest (COI)

What is a COI?

How we address conflict of interest

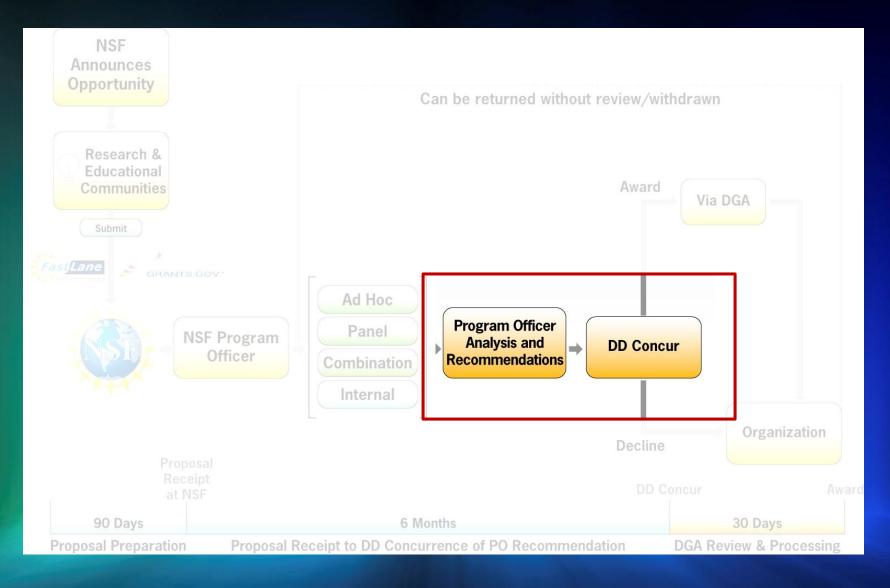
NSF checks and avoids COIs in the review process

Institutional COIs

Personal COIs



Proposal Review and Processing



Funding Decisions Reviews are Advisory to NSF

- The merit review process provides:
 - Review of the proposal and a recommendation on funding.
 - Feedback (strengths and weaknesses) to the proposers.
- NSF Program Officers make funding recommendations guided by program goals and portfolio considerations.
- NSF Division Directors either concur or reject the Program Officers' funding recommendations.

Feedback from Merit Review

- Reviewer ratings (such as: E, V, G, F, P)
- Analysis of how well proposal addresses both review criteria: Intellectual Merit and Broader Impacts
- Proposal strengths and weaknesses
- Reasons for decline (if applicable)
- If you have any questions, contact the cognizant Program Officer.



Documentation from Merit Review

 Verbatim copies of individual reviews, excluding reviewer identities

 Panel summary or summaries (if panel review was used)





 Program Officer to Principal Investigator comments (formal or informal, written, email or verbal) as necessary to explain a decision

Examples of Reasons for Declines

- Not considered competitive based on merit review criteria and program office concurrence
- Flaws or issues identified by the Program Officer
- Funds were not adequate to fund all competitive proposals



Revisions and Resubmissions

- Do the reviewers and the NSF Program Officer identify significant strengths in your proposal?
- Can you address the identified weaknesses?
- Can the proposal be significantly revised?
- Are there other ways your colleagues or you think a resubmission can be strengthened?



Questions?

Contact your cognizant Program Officer!

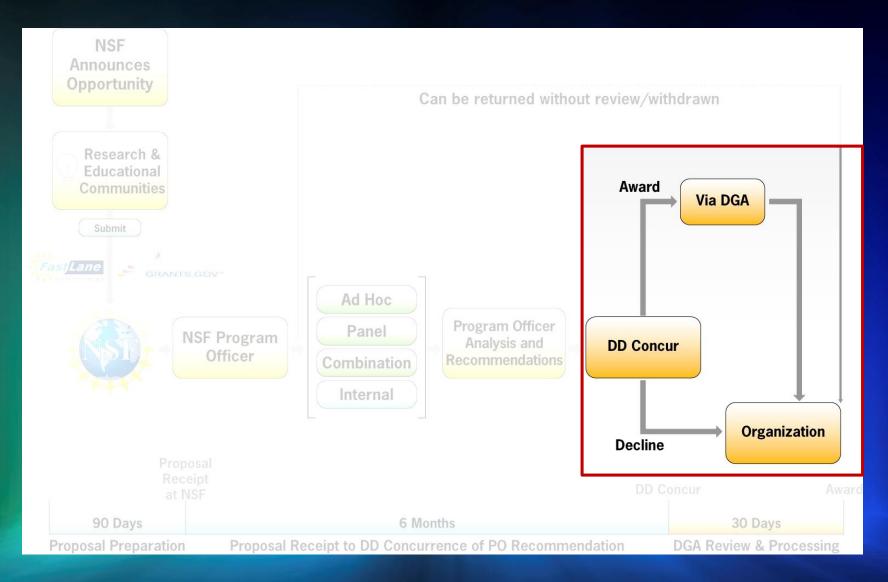
Possible Considerations for Funding a Competitive Proposal

- Addresses all review criteria
- Likely high impact
- Broadening participation
- Educational impact
- Impact on institution/state

- Special programmatic considerations (e.g. CAREER/RUI/EPSCoR)
- Other support for PI
- "Launching" versus"Maintaining"
- Portfolio balance

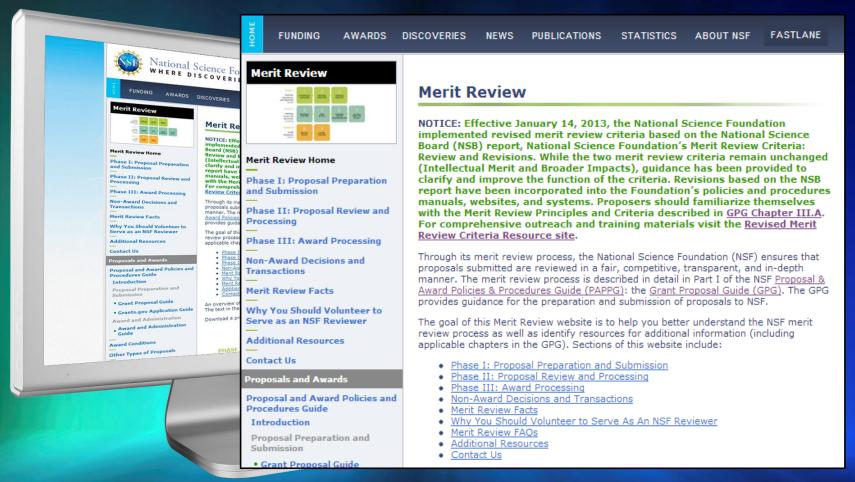


Proposal Review and Processing



For More Information

Go to NSF's Home Page (http://www.nsf.gov)



Ask Early, Ask Often!

Contact the cognizant Program Officer



Questions?





THE END

We'll see you tomorrow. . .

OVERVIEW AND FACTS ABOUT

THE NATIONAL SCIENCE FOUNDATION

Welcome to Virtual NSF Day!



Wednesday February 24, 2016





Ubiquity

Urgency

Engagement





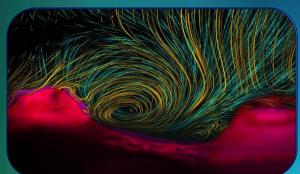
NSF's Organization

The NSF Directorates and Offices

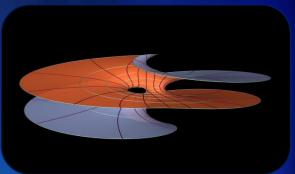


















Education & Human Resources (EHR)

Tom Higgins
Division of Undergraduate Education
thhiggins@nsf.gov



- Distinguished award winning Professor of Chemistry, Harold Washington College, Chicago, IL
- Chair, Physical Sciences
- Active member,
 American Chemical Society,
 Society Committee on Education,
 Two-Year College Chemistry Consortium



Education & Human Resources (EHR)



Assistant Director

Division of Graduate Education (DGE)

Dean Evasius

Division Director

Division of Human Resource Development (HRD)

Sylvia M. James

Division Director

Division of Research on Learning in Formal and Informal Settings (DRL)

Evan Heit

Division Director

Division of Undergraduate Education (DUE)

Susan R. Singer

Division Director

Education & Human Resources (EHR)















Learning and learning environments

Cognitive and non-cognitive foundations of STEM Creative uses of formal and informal STEM learning

Broadening participation in STEM

Access to and success in high-quality
STEM education for underrepresented groups

STEM professional workforce development

Capitalize on scientific advances

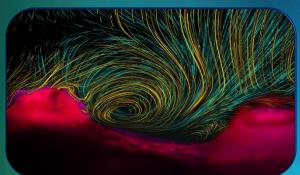
Address not yet imagined global, social & econ challenges

The NSF Directorates and Offices

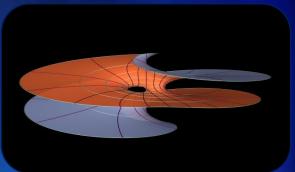




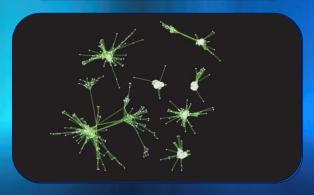














Office of International and Integrative Activities (OD/OIIA)



Randy L. Phelps

Integrative Activities rphelps@nsf.gov

- Co-coordinates two NSF-wide programs: MRI and STC.
- Recent co-chair and still active member, INSPIRE Working Group
- Former program director in NSF's Astronomy Division
- Former full professor in the Department of Astronomy and Physics at California State University, Sacramento.

Office of Integrative Activities (OD/OIA)



Office Priorities

- IA: Science and Technology Centers (STC)
- IA: Major Research Instrumentation (MRI)
- IA: Integrated NSF Support Promoting Interdisciplinary Research and Education (INSPIRE)
- EPSCoR: Research Infrastructure Improvement (RII)

Crosscutting & NSF-wide Opportunities



What Is meant by crosscutting?

Sponsored by >1 NSF unit....

Cuts across NSF in different ways...

Collaborative with other U.S. government agencies...



Types of Crosscutting Activities

- International
- Interdisciplinary research theme-based (e.g., Designing Materials, Hazards and Disasters)
- People-oriented (e.g., ADVANCE, CAREER, REU, Work-Life Balance)
- Infrastructure (e.g., MRI)
- Translational (ICorps, SBIR)
- Institutional, Centers (e.g., IUCRC, STC)

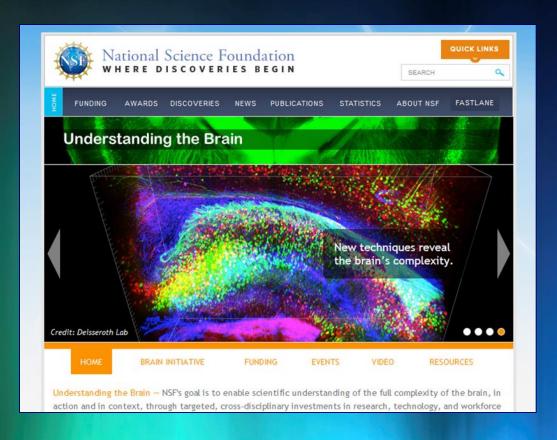


Find Funding for NSFwide and Crosscutting Opportunities

Go to: www.nsf.gov/funding/pgm.list.jsp?type=xcut

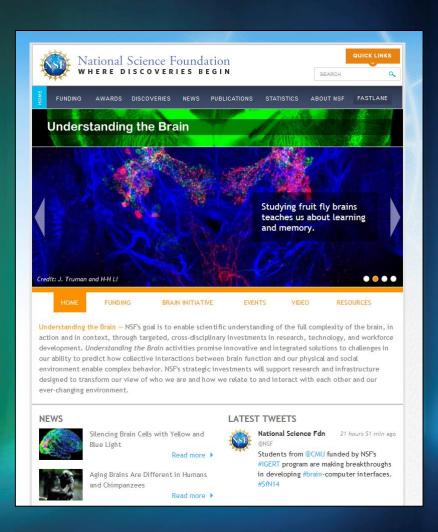


Brain Research through Advancing Innovative Neurotechnologies (BRAIN)



To enable scientific understanding of the full complexity of the brain in action and in context through targeted, crossdisciplinary investments in research, technology, and workforce development

Brain Research through Advancing Innovative Neurotechnologies (BRAIN)



Thematic areas of BRAIN

Multi-scale Integration of the dynamic activity and structure of the brain

Neurotechnology and research infrastructure

Quantitive theory and modeling of brain function

Brain-Inspired concepts and designs

BRAIN Workforce Development

RAPID/ EAGER

Grants for Rapid Response Research (RAPID)

Severe Urgency

Up to \$200K/one year

Brief project description

Internal review



Potentially transformative

Up to \$300K/one year

"High risk-high payoff"

Internal review

Research Experiences for Undergraduates



REU in BIO is administered through DBI; (typical programs include 10 students for 10 weeks

REU Goals:

- Initiate and conduct projects that engage a number of undergraduate students in summer research.
- Involve students who might not otherwise have the opportunity, particularly those from academic institutions where research programs are limited; applications from younger students (rising sophomores) are encouraged

Research Experiences for Teachers

RET Goals:

Enable K-12 teachers and community college faculty to engage in STEM research and then adapt knowledge into their teaching



RET Sites and Supplements
 May be included in REU proposals
 Check Directorates for specific mechanisms

NSF Research Traineeship (NRT) Program

Replaces



Encouraging the development and implementation of bold, new, potentially transformative, and scalable models for STEM graduate training

Traineeship Track \$3,000,000 for up to 5 years



Innovations in Graduate Education (IGE) Track \$300,000 - \$500,000 for 2-3 years



NSF Research Traineeship (NRT) Program

APPLICATION DUE DATES:

Letter of Intent Deadline Date: December 9, 2016 For both tracks

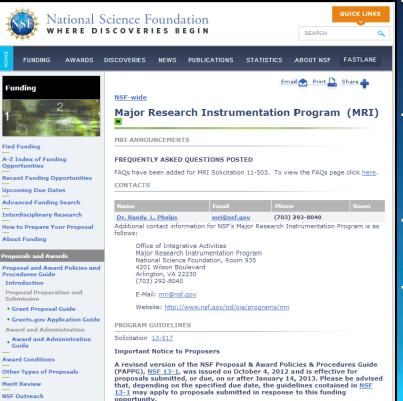
Full Proposal Deadline Date:

February 7, 2017
For both tracks



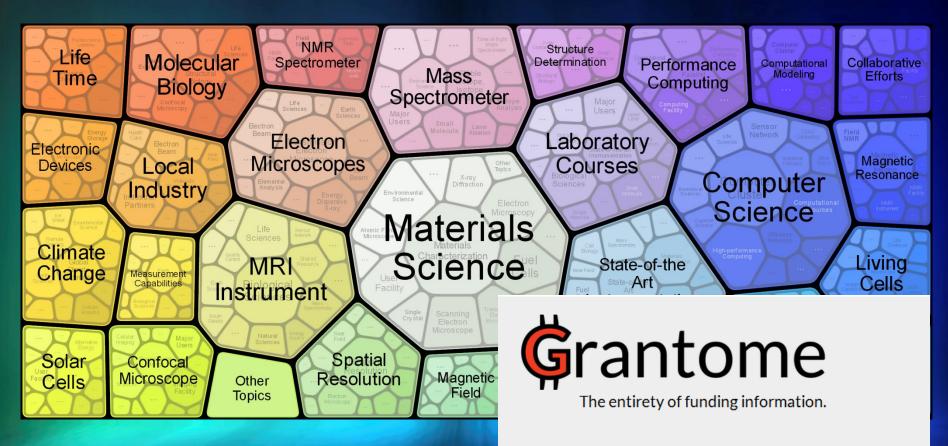


Major Research Instrumentation (MRI) Goals:



- Support acquisition of major state-of-the-art instrumentation
- Foster development of the next generation of major instrumentation
- Integrate research with education
- Use, advance, expand the nation's cyber-infrastructure and/or high performance computing capability
- Promote academic & private sector instrument development partnerships

Major Research Instrumentation (MRI) <u>Thematic Areas:</u>



The competition for securing research funding has never been so intense. Increase your chance of getting grants by using our tools to discover the most important factors underlying funded research in your area.

Graduate Research Fellowship Program





Goals:

- Select, recognize, and financially support <u>early in their careers</u> individuals with the demonstrated potential to be high achieving scientists and engineers
- Broaden participation in science and engineering of underrepresented groups, including women, minorities, persons with disabilities, and veterans



5 Year Award = \$138,000

\$34,000/year for 3 years +

+

\$12,000 Educational allowance to institution



GROW: International Research

GRIP: Internships

Supercomputer access: XSEDE

Career Life Balance (family leave)





RESOURCES:

Solicitation and links www.nsf.gov/grfp



NSF GRFP FastLane Website www.fastlane.nsf.gov/grfp

Application, guides, announcements GRFP Website, www.nsfgrfp.org

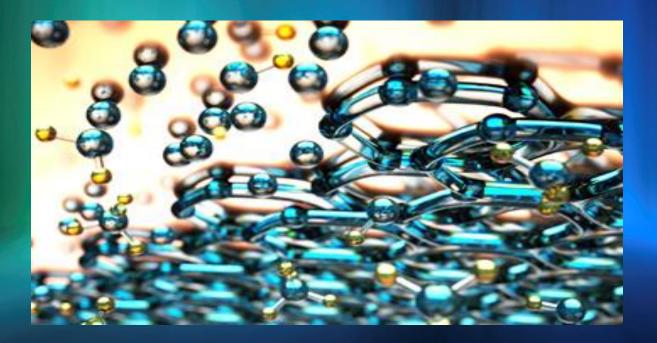
Current & former Fellows 866-NSF-GRFP, info@nsfgrfp.org

Grant Opportunities for Academic Liaison with Industry - GOALI

Promotes university-industry partnerships

Supplies project funds or fellowships/traineeships

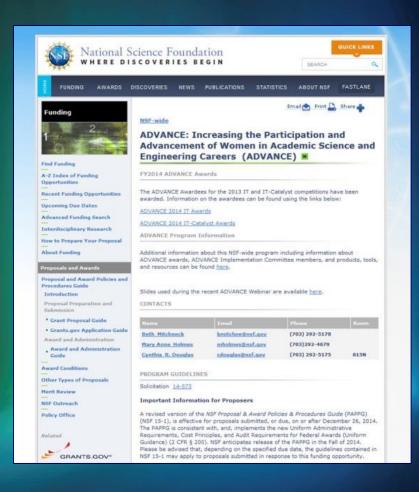
Supports eclectic mix of industry-university linkages



Encourages research that lies beyond that which industry would normally fund SOLO

ADVANCE:

Increasing the Participation and Advancement of Women in Academic Science and Engineering Careers



Goals:

Systemic approaches to increase the representation and advancement of women in academic STEM careers.

Contribute to and inform the general knowledge base on gender equity in the academic STEM disciplines.

Questions?





THE END

We'll see you tomorrow. . .

Welcome to Virtual NSF Day!



Thursday February 25, 2016



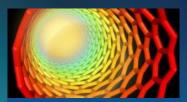


OVERVIEW AND FACTS ABOUT

THE NATIONAL SCIENCE FOUNDATION



Biological Sciences



Engineering



Mathematical & Physical Sciences



Computer & Information Science & Engineering



Geosciences (including Polar Programs)



Integrative Activities



Education & Human Resources

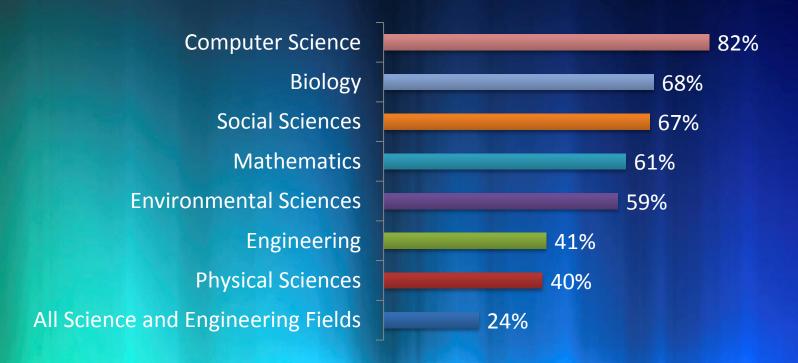


Social, Behavioral & Economic Sciences



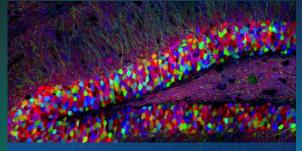
International Science and Engineering

NSF Support of Academic Basic Research in Selected Fields (as a percentage of total federal support)



Note: Biology includes Biological Science and Environmental Biology; excludes National Institute of Health

Source: NSF/National Center for Science and Engineering Statistics, Survey of Federal Funds for Research and Development

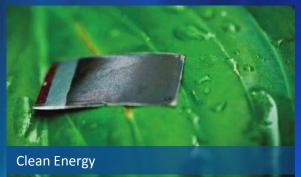














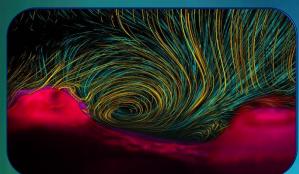
NSF's Organization

The NSF Directorates and Offices

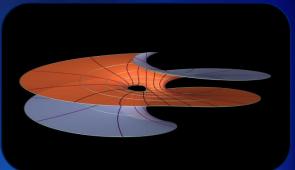


















Geosciences (GEO)



Eric DeWeaver

Division of edeweave@nsf.gov

- Manages the Climate and Large-Scale
 Dynamics Program (CLD)
- Formerly at UW-Madison, postdoc in Seattle
- Research interests in the dynamics of atmospheric circulation, Arctic sea ice
- Worked on polar bear listing decision for USGS

Geosciences (GEO)

Dr. Roger Wakimoto, Assistant Director
Dr. Margaret Cavanaugh, Deputy Assistant Director

Division of Atmospheric and Geospace Sciences (AGS)

Paul Shepson, Division Director

Division of Polar Programs
(PLR)

Carol Frost, Division Director

Geosciences (GEO)





Directorate Priorities

- Support basic research in atmosphere, earth, ocean sciences, and polar studies
- Support research facilities and infrastructure (NCAR, research vessels, Antarctic base, Geochronology, EarthScope)
- Develop community-driven cyberinfrastructure
- Promote education and diversity in geosciences
- Initiatives in hazards and resilience and the water cycle (PREevents, INFEWS)

Recruiting Rotators



Nancy Roddy

Division of Human Resource Management nroddy@nsf.gov

- Advisor for special programs in a variety of business operations and human resources areas
- Focus on recruitment and outreach including social media
- See me to learn more about working at NSF!

Recruiting Objectives for NSF



- Build an increasingly diverse, engaged and high-performing workforce
- Effectively manage human capital
- Recruit rotators come to my breakout session!



Planting the Seed: Opportunities at NSF

Virtual NSF Days with FSU February 25, 2016

Nancy Roddy, Advisor for Special Programs, OIRM/HRM Tracy Rheaume, Student Trainee (HR Specialist), OIRM/HRM

Opportunities for scientists, engineers, and educators

- Temporary program directors—called rotators.
- In this leadership position, you will:
 - Make recommendations about which proposals to fund
 - Influence new directions in the fields of STEM
 - Support cutting-edge interdisciplinary research
 - Mentor junior research members.

In other words...

• As a rotator, you will be in a prime position to collaborate with others and increase your visibility as you survey the entire breadth of U.S. and international science, engineering, and education in real time.

Two Types of Rotators



Visiting Scientists, Engineers & Educators (VSEEs)



Intergovernmental Personnel Act (IPA) Assignees

Rotational Program Hiring Options

While the two programs are similar, there are some key differences, a few of which are

IPA

IPA Assignments may be made to or from Federal agencies and state and local governments; private and public colleges and universities; Indian Tribal governments; federally funded research and development centers; and qualified non-profit organizations involved in public management.

VSEE

VSEE program allows NSF to work with the above IPA eligible organizations, but also with the private sector (for profit) as well.

Minimum Qualifications

Program Officers come into NSF with substantial post-doctorate
 experience in a variety of areas relevant to their responsibilities and
 duties.

Minimum Qualifications required for a Program Officer include:

- a Ph.D. or equivalent experience in a field relevant to their responsibilities and duties
- plus, <u>after award of the PhD</u>, six or more years of research, research administration, and/or managerial experience pertinent to the position.

To Learn More Visit <u>NSF's Rotator</u> <u>Microsite</u>



HOME

VIDEO FAOS

ROTATOR TESTIMONIALS

RECRUITMENT MATERIALS

FAQ's on becoming a rotator

SHARE IN THE DISCOVERY

BECOME AN NSF ROTATOR



Video FAQs

A rare opportunity for scientists, engineers, and educators to join as temporary program directors.

Learn More »

Rotator Testimonials

Learn first hand how serving as an NSF program director puts you at the forefront of discovery.

Learn More »

Hear from former and current rotators



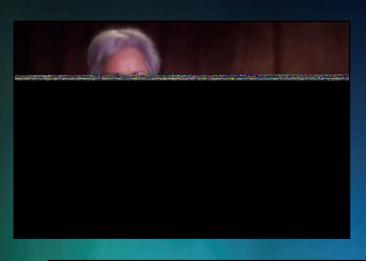
Recruitment Materials

Resource materials used for the recruitment of Program Directors.

Learn More »

If you're interested in applying to NSF as a Rotator, please visit our Career Opportunities page.





Learn About

- Rotator Overview
 - o Term Length
 - o Rotator Benefits and Opportunities
- Moving to the Area as a Rotator
 - Working and Living in Washington DC
- Applying and Becoming a Rotator at NSF
 - Continuing Your Research





Thank you!

 If you're interested in applying to NSF as a Rotator, please visit our Career Opportunits page.

- Questions? Contact Nancy at nrod <a href="mailto:nrod"
 - Or Tracy at trheaume@nsf.gov

Faculty Early Career Development program "CAREER"





CAREER Awards

Solicitation 15-555

Due Dates:

July 20, 2016 BIO, CISE, EHR

July 21, 2016 ENG

July 22, 2016 GEO, MPS, SBE

CAREER Awards

Foundation wide
Supports junior faculty
Research and education integration
PECASE (Presidential Early Career Award for Scientists and Engineers)

eligibility



CAREER Awards

Stable support for 5 years

NSF wide: 400 per year



- > \$400K CISE, EHR, MPS, SBE
- > \$500K ENG, BIO, GEO/PLR

CAREER eligible investigators must:



Hold PhD (by proposal deadline)

Be employed in a tenure-track (or equivalent) position at an eligible institution as an Assistant Professor (until Oct 1st following deadline)

An eligible institution must be:

An academic institution in the U.S., its territories or possessions, and the Commonwealth of Puerto Rico that award degrees in fields supported by NSF.

An eligible institution may also be:



Non-profit, non-degree-granting (e.g. a museum, observatory or lab) if the eligibility requirements of the PI are satisfied.

NSF encourages proposals from different institutional types, including minority serving and undergraduate institutions

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CAREER eligible investigators may NOT:

- Receive tenure before Oct 1st following proposal deadline
- Have previously received a CAREER award
- Have had more than two CAREER proposals reviewed
- Be an untenured associate professor

CAREER varies across NSF

- Number of submitted CAREER proposals
- Review and Funding methods
- Other Proposals with which CAREERs compete



NSF CAREER
Coordinating Committee
Sets NSF-wide goals

CAREER Proposals

Contact program manager liaison* and ask about:

- Expectations for scope of research and education
- Assessment of 2-page departmental letter
- Funding rate trend for regular proposals in the program of interest

* see http://www.nsf.gov/crssprgm/career/contacts.jsp

Are CAREER awards right for you?

Yes, if:

Your proposed research is innovative, ambitious and within NSF's the purview of research and education supported

You have support from your department/organization, mentors.

You are at the right stage of your career.

CAREER Personnel and Budgets

YES

NO

Consultants, subawards, unpaid collaborators

Co-PI, senior personnel

Academic year buyouts for teaching intensive institutions



CAREER Departmental 2 Page Letter

- Statement of PI CAREER program eligibility
- Support for PI's s proposed research and education activities
- Description of how the PIs career goals and responsibilities mesh with that of the organization and department
- Commitment to support professional development and mentoring of the PI
- NOT a letter of recommendation or endorsement of the PI or the research project

CAREER Awards Urban Myths

"You cannot apply because you have another NSF award..."

"It is an entry program, so you must first apply to CAREER..."

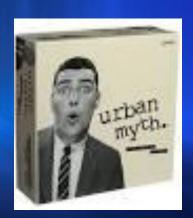
"I need to see a successful proposal to write a successful proposal..."

"You have no chance, if you are not from a research intensive institution..."

"CAREER proposals are more portable than other NSF funding."

"The education component does not matter.

"I read on the web that to succeed, I have to...."



Traits of a Successful CAREER Proposal



High quality -- This is a highly competitive program!

Matches disciplinary program expectations

Includes an appropriate scope of activities for a 5-year plan, not one's whole life!

Goes outside the education box of regular research proposals in the field

Strikes a balance between doable research activities and more risky pursuits

PECASE: Presidential Early Career Awards for Science and Engineering April 18, 2014



CAREER Awards Resources:

- Program Solicitation NSF 15-555
- Frequently Asked Questions NSF 15-057
- CAREER Directorate/Division Contacts
 - http://www.nsf.gov/crssprgm/career/contacts.jsp
- Links to recent CAREER and PECASE awards

Questions?



Thank you for Attending NSF's very first virtual NSF Day!



Evaluation to Come!